

In the Claims:

Please amend claims 1-13, 16, 21-22, 24, 27, 28, and 30-42, as indicated below.

1. (Currently amended) A ~~computer program product~~ computer-readable storage medium storing program instructions, which when executed computer-executable to perform[[s]] operations comprising:

encoding an association of a ~~computer~~ resource and a resource management policy for the ~~computer~~ resource; ~~and~~

binding one or more encapsulated computations to the encoding; and

executing the one or more encapsulated computations in accordance with the resource management policy.

2. (Currently amended) The ~~computer program product~~ computer-readable storage medium of claim 1, wherein the encapsulated computations correspond to a collaborative application.

3. (Currently amended) The ~~computer program product~~ computer-readable storage medium of claim 1, wherein an encapsulated computation has a state independent of other encapsulated computations.

4. (Currently amended) The ~~computer program product~~ computer-readable storage medium of claim 1, wherein said encoding the association includes instantiating a resource domain structure, wherein the resource domain structure indicates a computer resource.

5. (Currently amended) The ~~computer program product~~ computer-readable storage medium of claim 4, wherein the encoding further includes indicating ~~indicates~~ a

set of one or more policy actions for the resource, the set of policy actions corresponding to the resource management policy.

6. (Currently amended) The ~~computer-program-product~~ computer-readable storage medium of claim 5, wherein the program instructions are further executable to implement a policy imposing isolate ~~installs~~ installing the set of policy actions in the resource domain structure.

7. (Currently amended) The ~~computer-program-product~~ computer-readable storage medium of claim 5, wherein the resource domain structure also indicates a set of one or more triggers for the resource, wherein the set of triggers correspond to respective ones of the set of policy actions.

8. (Currently amended) The ~~computer-program-product~~ computer-readable storage medium of claim 4, wherein the resource domain structure also indicates a reservation on the resource.

9. (Currently amended) The ~~computer-program-product~~ computer-readable storage medium of claim 4, wherein said binding the one or more encapsulated computations ~~with to~~ the encoding comprises indicating in a registry each of the encapsulated computations and the encoding.

10. (Currently amended) The ~~computer-program-product~~ computer-readable storage medium of claim 5, wherein the program instructions are further executable to implement a dispenser ~~retrieves~~ retrieving the policy actions from the resource domain structure and ~~executes~~ executing the policy actions to handle a resource request for the resource, wherein the dispenser is an isolate that handles requests for the resource.

11. (Currently amended) The ~~computer-program-product~~ computer-readable storage medium of claim 1, wherein said binding the ~~group of one or more encapsulated~~

computations with to the encoding comprises indicating to each of the encapsulated computations the encoding.

12. (Currently amended) The ~~computer program product~~ computer-readable storage medium of claim 1, wherein the computer resource includes physical and logical computer resources.

13. (Currently amended) A computer-implemented method, comprising:

encoding an association of a computer resource with a resource management policy for the resource; ~~and~~

binding one or more isolates to the encoding, wherein isolates include encapsulated one or more computations with state independent of other computations; and

executing the one or more isolates in accordance with the resource management policy.

14. (Original) The method of claim 13, wherein the encoding indicates the computer resource.

15. (Original) The method of claim 14, wherein the encoding further indicates a set of one or more policy actions corresponding to the resource management policy, wherein execution of the set of policy actions causes a policy decision to be generated for the computer resource.

16. (Currently amended) The method of claim 14, ~~wherein further comprising~~ a dispenser isolate ~~retrieves~~ retrieving the set of policy actions from the encoding and ~~executes~~ executing the set of policy actions to invoke a policy imposing isolate.

17. (Original) The method of claim 14, wherein the encoding also indicates availability of the computer resource.

18. (Original) The method of claim 14, wherein the encoding also indicates a reservation on the computer resource.

19. (Original) The method of claim 14, wherein the resource management policy is defined by a policy imposing isolate that installs the resource management policy in the encoding.

20. (Original) The method of claim 19, wherein the bound isolates include the policy imposing isolate.

21. (Currently amended) The method of claim 13, further comprising indicating the encoding in a registry of resource management policy-computer resource association encodings.

22. (Currently amended) The method of claim 13 further comprising ~~indicating~~ characterizing the computer resource with generic attributes, ~~and wherein the generic attributes that at least include~~ comprise disposable, revocable, reservable, and bounded.

23. (Original) The method of claim 13, wherein the isolates correspond to a collaborative application.

24. (Currently amended) A data structure encoded on one or more machine-readable storage media, the data structure comprising:

a first field to indicate a computer resource;

a second field to indicate a resource management policy; and

a third field to indicate availability of the computer resource.

25. (Original) The data structure of claim 24 further comprising a fourth field to indicate an identifier to identify an association between a resource indicated in the first field and a resource management policy indicated in the second field.

26. (Original) The data structure of claim 24 further comprising a fourth field to indicate computer resource usage by a set of one or more encapsulated computations bound to the data structure.

27. (Currently amended) The data structure of claim 24, wherein the first field indicates attributes of a computer resource's ~~attributes~~.

28. (Currently amended) The data structure of claim 27, wherein the attributes of the computer resource's attributes at least include comprise: disposable, revocable, reservable, and bounded.

29. (Original) The data structure of claim 24 further comprising a fourth field to indicate a reservation of the computer resource.

30. (Currently amended) A ~~computer program product encoded on one or more machine-readable media~~ computer-readable storage medium storing program instructions computer-executable to, wherein the computer program product, when executed, perform[[s]] operations comprising:

preventing binding of two or more encapsulated computations with resource domain structures, ~~each of the resource domain structures representing an association between a computer resource and a resource management policy,~~ that indicate the same computer resource, ~~wherein each of the resource domain structures represents an association between a computer resource and a resource management policy; and~~

allowing binding of two or more encapsulated computations ~~with to~~ resource domain structures that indicate different computer resources; and

executing the two or more bound encapsulated computations in accordance with the resource management policy.

31. (Currently amended) The ~~computer program product~~ computer-readable storage medium of claim 30 wherein the resource domain structures identify their resource domain and indicate resources and associated resource management policies.

32. (Currently amended) The ~~computer program product~~ computer-readable storage medium of claim 31, wherein each of the resource domain structures indicate generic attributes of their computer resource that at least include disposable, revocable, reservable, and bounded.

33. (Currently amended) The ~~computer program product~~ computer-readable storage medium of claim 31, wherein the resource domain structures indicate usage of their computer resource.

34. (Currently amended) The ~~computer program product~~ computer-readable storage medium of claim 31, wherein the resource domain structures indicate reservations on their corresponding computer resource.

35. (Currently amended) A ~~computer program product encoded on one or more machine-readable media, wherein the computer program product comprises~~ computer-readable storage medium comprising program instructions computer-executable to implement:

instantiating an instance of a resource domain according to a resource domain class definition, wherein the resource domain class definition that provides

for associating a computer resource with a resource management policy and for binding a set of one or more isolates ~~with an instantiation of a resource domain defined with the resource domain class definition to the instance, and~~ wherein each of the isolates includes a set of one or more encapsulated computations with state independent of other isolates; and

executing the one or more isolates in accordance with the resource management policy.

36. (Currently amended) The ~~computer-program-product~~ computer-readable storage medium of claim 35, wherein the resource domain class definition provides a routine for determining current usage corresponding to an instance of the resource domain class.

37. (Currently amended) The ~~computer-program-product~~ computer-readable storage medium of claim 35, ~~further comprising~~ wherein the program instructions are further executable to implement one or more routines for unconsuming computer resources.

38. (Currently amended) The ~~computer-program-product~~ computer-readable storage medium of claim 35 ~~further comprising~~ wherein the program instructions are further executable to implement one or more routines for attempting to consume a given amount of a computer resource, with the possibility of success or failure.

39. (Currently amended) The ~~computer-program-product~~ computer-readable storage medium of claim 35 ~~further comprising~~ wherein the program instructions are further executable to implement one or more routines for indicating computations bound to ~~a given~~ the resource domain class instance.

40. (Currently amended) The ~~computer-program-product~~ computer-readable storage medium of claim 35 ~~further comprising~~ wherein the program instructions are

~~further executable to implement a sequence of instructions to regulate~~ regulating association of computations with instances of the resource domain class, wherein each instance of the resource domain class indicates different resources.

41. (Currently amended) The ~~computer program product~~ computer-readable storage medium of claim 35 ~~further comprising wherein the program instructions are further executable to implement a sequence of instructions to associate~~ associating resource domain class instances with dispensers that handle resource requests separately from implementation of the resource.

42. (Currently amended) An apparatus, comprising:

a memory; and

means for representing an association between a computer resource and a resource management policy and for binding one or more isolates with the representation of the association of the computer resource and the resource management policy, wherein an isolate includes a set of one or more computations with a state independent of other computations; and

means for executing the one or more isolates in accordance with the resource management policy.

43. (Original) The apparatus of claim 42, wherein the resource management policy comprises one or more policy actions that provide policy decisions to computer resource requests.

44. (Original) The apparatus of claim 43 wherein the resource management policy further comprises triggers that gate execution of policy actions.

45. (Original) The apparatus of claim 42 further comprising means for indicating usage of the computer resource.